

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09/332,886
Source: 1FW0
Date Processed by STIC: 1/27/05

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RAW SEQUENCE LISTING

DATE: 01/27/2005

PATENT APPLICATION: US/09/332,886

TIME: 16:05:09

Input Set : A:\RU-64.ST25.txt

Output Set: N:\CRF4\01272005\I332886.raw

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3 <110> APPLICANT: Lazarus, Robert A.
4     Hurle, Mark
5     Anderson, Stephen
6     Powers, David B.
8 <120> TITLE OF INVENTION: Improved Enzymes for the Production of 2-Keto-L-Gulonic Acid
10 <130> FILE REFERENCE: RU-0064
12 <140> CURRENT APPLICATION NUMBER: US 09/332,886
13 <141> CURRENT FILING DATE: 1999-06-15
15 <150> PRIOR APPLICATION NUMBER: US 08/749,337
16 <151> PRIOR FILING DATE: 1996-11-14
18 <150> PRIOR APPLICATION NUMBER: US 07/941,414
19 <151> PRIOR FILING DATE: 1992-09-08
21 <160> NUMBER OF SEQ ID NOS: 19
23 <170> SOFTWARE: PatentIn version 3.1
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 278
27 <212> TYPE: PRT
28 <213> ORGANISM: Corynebacterium sp.
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32 Met Thr Val Pro Ser Ile Val Leu Asn Asp Gly Asn Ser Ile Pro Gln
33 1          5          10          15
36 Leu Gly Tyr Gly Val Phe Lys Val Pro Pro Ala Asp Thr Gln Arg Ala
37          20          25          30
40 Val Glu Glu Ala Leu Glu Val Gly Tyr Arg His Ile Asp Thr Ala Ala
41          35          40          45
44 Ile Tyr Gly Asn Glu Glu Gly Val Gly Ala Ala Ile Ala Ala Ser Gly
45          50          55          60
48 Ile Ala Arg Asp Asp Leu Phe Thr Thr Thr Lys Leu Trp Asn Asp Arg
49 65          70          75          80
52 His Asp Gly Asp Glu Pro Ala Ala Ala Thr Ala Glu Ser Leu Ala Lys
53          85          90          95
56 Leu Ala Leu Asp Gln Val Asp Leu Tyr Leu Val His Trp Pro Thr Pro
57          100         105         110
60 Ala Ala Asp Asn Tyr Val His Ala Trp Glu Lys Met Ile Glu Leu Arg
61          115         120         125
64 Ala Ala Gly Leu Thr Arg Ser Ile Gly Val Ser Asn His Leu Val Pro
65          130         135         140
68 His Leu Glu Arg Ile Val Ala Ala Thr Gly Val Val Pro Ala Val Asn
69 145         150         155         160
72 Gln Ile Glu Leu His Pro Ala Tyr Gln Gln Arg Glu Ile Thr Asp Trp
73          165         170         175
76 Ala Ala Ala His Asp Val Lys Ile Glu Ser Trp Gly Pro Leu Gly Gln
77          180         185         190

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80 Gly Lys Tyr Asp Leu Phe Gly Ala Gly Pro Val Thr Ala Ala Ala Ala
81      195                200                205
84 Ala His Gly Lys Thr Pro Ala Gln Ala Val Leu Arg Trp His Leu Gln
85      210                215                220
88 Lys Gly Phe Val Val Phe Pro Lys Ser Val Arg Arg Glu Arg Leu Glu
89 225                230                235                240
92 Glu Asn Leu Asp Val Phe Asp Phe Asp Leu Thr Asp Thr Glu Ile Ala
93      245                250                255
96 Ala Ile Asp Ala Met Asp Pro Gly Asp Gly Ser Gly Arg Val Ser Ala
97      260                265                270
100 His Pro Asp Glu Val Asp
101      275
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105 <211> LENGTH: 28
106 <212> TYPE: DNA
107 <213> ORGANISM: Artificial sequence
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110 <223> OTHER INFORMATION: Synthetic
112 <400> SEQUENCE: 2
113 cgcgaaagctg gctctagatc aggtcgac                28
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117 <211> LENGTH: 25
118 <212> TYPE: DNA
119 <213> ORGANISM: Artificial sequence
121 <220> FEATURE:
122 <223> OTHER INFORMATION: Synthetic
124 <400> SEQUENCE: 3
125 atcgtggggg cccctcggtc agggc                25
128 <210> SEQ ID NO: 4
129 <211> LENGTH: 28
130 <212> TYPE: DNA
131 <213> ORGANISM: Artificial sequence
133 <220> FEATURE:
134 <223> OTHER INFORMATION: Synthetic
136 <400> SEQUENCE: 4
137 gaggtcgact gaggtacccg aacacccg                28
140 <210> SEQ ID NO: 5
141 <211> LENGTH: 23
142 <212> TYPE: DNA
143 <213> ORGANISM: Artificial sequence
145 <220> FEATURE:
146 <223> OTHER INFORMATION: Synthetic
148 <400> SEQUENCE: 5
149 gcccctcggt cgcggcaagt acg                23
152 <210> SEQ ID NO: 6
153 <211> LENGTH: 36
154 <212> TYPE: DNA
155 <213> ORGANISM: Artificial sequence
157 <220> FEATURE:

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166 <212> TYPE: DNA
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178 <212> TYPE: DNA
179 <213> ORGANISM: Artificial sequence
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191 <213> ORGANISM: Artificial sequence
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213 <211> LENGTH: 23
214 <212> TYPE: DNA
215 <213> ORGANISM: Artificial sequence
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238 <212> TYPE: DNA
239 <213> ORGANISM: Artificial sequence
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248 <210> SEQ ID NO: 14
249 <211> LENGTH: 23
250 <212> TYPE: DNA
251 <213> ORGANISM: Artificial sequence
253 <220> FEATURE:
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256 <400> SEQUENCE: 14
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261 <211> LENGTH: 23
262 <212> TYPE: DNA
263 <213> ORGANISM: Artificial sequence
265 <220> FEATURE:
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268 <400> SEQUENCE: 15
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273 <211> LENGTH: 23
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275 <213> ORGANISM: Artificial sequence
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286 <212> TYPE: DNA
287 <213> ORGANISM: Artificial sequence
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298 <212> TYPE: DNA
299 <213> ORGANISM: Artificial sequence
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302 <223> OTHER INFORMATION: Synthetic
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310 <212> TYPE: DNA
311 <213> ORGANISM: Artificial sequence
313 <220> FEATURE:
314 <223> OTHER INFORMATION: Synthetic
316 <400> SEQUENCE: 19
317 gggtcgcgtg tgagcacacc ccg 23
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VERIFICATION SUMMARY

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